

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B128	BUFFERED GLUCOSE BROTH (MR VP MEDIUM)					
Formula						
Ingredients :		gms/lit.				
Peptic digest of animal tissue		5.00				
Dextrose		5.00				
Dipotassium phosphate		5.00				
Final pH (at 25°C) : 6.9 ± 0.2						
Directions :						
Suspend 15 gms in 1000 ml. distilled water. Heat if necessary to dissolve medium completely. Distribute in 10 ml amounts in tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle :						
Peptic digest of animal tissue and dextrose act as source of carbon, nitrogen, vitamins and minerals. Phosphates buffer the medium.						
QC Tests – (I) Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		6.9 ± 0.2				
Colour (post autoclaving/heating) :		Light yellow				
Clarity (post autoclaving/heating) :		Clear				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18 –48 hrs at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH	MR Test	VP Test		
Escherichia coli (25922)		Luxuriant	Positive with bright red color	Negative with no change		
Enterobacter aerogenes (13048)		Luxuriant	Negative reaction (yellow color)	Positive reaction, Eosin pink/red color within 2-5 minutes		
Klebsiella pneumoniae (23357)		Luxuriant	Negative reaction (yellow color)	Positive reaction, Eosin pink/red color within 2-5 minutes		
Precautions :		1. For Laboratory Use.				
		2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
		3. May be Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed.				
Limitations :		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
		2. The types and numbers of competing flora in the test sample can affect recovery and may overgrow salmonellae.				
Use :		It is recommended for the performance of the Methyl Red and Voges-Proskauer tests in differentiation of the coli-aerogenes group.				
Storage :		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B128	15 g/l	33.333 L	6.9 ± 0.2	NIL	121°C / 15 minutes	